L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1985:525206 CAPLUS
DN 103:125206
ED Entered STN: 19 Oct 1985
TI Protective transfer coatings
PA Nitto Electric Industrial Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B05D001-28
ICS B05D003-06
ICA C08J007-04
CC 42-11 (Coatings, Inks, and Related Products)

uv cure

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | JP 60068082 | A2 | 19850418 | JP 1983-177462 | 19830926 <-- |
| | JP 61061875 | B4 | 19861227 | | |
| PRAI | JP 1983-177462 | | 19830926 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|---|---|---|
| JP 60068082 | ICM | B05D001-28 |
| | ICS | B05D003-06 |
| | ICA | C08J007-04 |

AB Protective coatings with good adhesion to flat surfaces are formed without the use of organic solvents by coating a backing film with a mixture of a compound containing (meth)acryloyl groups and a copolymer of acrylic monomers with unsatd. photosensitizers, then pressing the coated side of the film against the surface, photocuring it, and removing the backing film. Thus, Et methacrylate 80, Me methacrylate 20, 4-acryloyloxyethoxy-4'-chlorobenzophenone 10, acrylic acid 5, Na dodecylbenzenesulfonate 3, and H2O 100 parts were mixed with 0.05 part (NH4)2S2O8 and heated to obtain a photosensitive copolymer [98101-06-5] dispersion, 100 parts (solids) of which was mixed with 50 parts tetraethylene glycol dimethacrylate [109-17-1], applied to a 60-μ polyethylene (I) [9002-88-4] sheet, and dried to form a 10-μ coating. The coated sheet was pressed against an SUS 304 steel sheet and UV irradiated, and then the I sheet was peeled off, leaving a coating which showed good hardness and adhesion. Coatings applied similarly to Cu or acrylic polymer sheets also showed good adhesion.

ST photocurable solventless acrylic transfer coating; copolymd photosensitizer acrylic transfer coating; crosslinking catalyst copolymd photochem; abrasion resistant photocurable transfer coating

IT Acrylic polymers, uses and miscellaneous
RL: USES (Uses)
(sheets, abrasion-resistant acrylic transfer coatings for, containing copolymd. photosensitizers)

IT Coating materials
(abrasion-resistant, transfer, containing copolymd. photosensitizers and (meth)acrylate diluents)

IT Coating materials
(abrasion-resistant, photocurable, solventless, transfer, acrylic, containing copolymd. photosensitizers and (meth)acrylate diluents)

IT Abrasion-resistant materials
(coatings, transfer, containing copolymd. photosensitizers and (meth)acrylate diluents)

IT Crosslinking catalysts
(photochem., copolymd., acrylic transfer coatings containing, with (meth)acrylate diluents)

IT 9002-86-2 9002-88-4
RL: USES (Uses)
(backing sheets, for protective acrylic transfer coatings containing copolymd. photosensitizers)
IT 109-17-1 3524-68-3 4986-89-4
RL: USES (Uses)
(diluents, for acrylic transfer coatings containing copolymd. photosensitizers)
IT 98101-06-5 98101-08-7 98101-10-1
RL: USES (Uses)
(photocurable transfer coatings, with (meth)acrylate diluents, abrasion-resistant)
IT 7440-50-8, uses and miscellaneous 11109-50-5
RL: USES (Uses)
(sheets, abrasion-resistant acrylic transfer coatings for, containing copolymd. photosensitizers)
RN 9002-86-2
RN 9002-88-4
RN 109-17-1
RN 3524-68-3
RN 4986-89-4
RN 98101-06-5
RN 98101-08-7
RN 98101-10-1
RN 7440-50-8
RN 11109-50-5

L12 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1985-131225 [22] WPIX
DNN N1985-098648 DNC C1985-057062
TI Forming polymer surface protective layer - includes applying acrylic copolymer photohardenable tacky layer to self-supporting sheet or film.
DC A14 A32 G02 P42 P78
PA (NITL) NITTO ELECTRIC IND CO
CYC 1
PI JP 60068082 A 19850418 (198522)* 5 <--
JP 61061875 B 19861227 (198704)
ADT JP 60068082 A JP 1983-177462 19830926
PRAI JP 1983-177462 19830926
IC B05D001-28; B05D003-06; B29C063-02; B44C001-16; C08J007-04
AB JP 60068082 A UPAB: 19930925
New forming method of surface protection layer features the following: Photohardenable tacky layer (I) consisting of acrylic copolymer formed up by copolymerising acrylic unsatd. monomer and light sensitiser having polymeric unsatd. gp. and photopolymeric cpd. having at least 1 (meth)acryloyl gp. per molecule is applied to the surface of self-supporting sheet (or film), and a composite sheet (or film) made up thus forming a photohardening tacky layer is adhered to an adherend through (I). (I) is hardened by exposing to light, and then only the self-supporting sheet (or film) is peeled off, and thus a surface protection layer consisting of polymeric hardened substance is formed on the surface of the adherend.
USE/ADVANTAGE - Surface protection layer is provided for plate-like goods before working and also after working.
0/0
FS CPI GMPI
FA AB
MC CPI: A04-F06C; A11-B05; A11-C02B; A12-B01E; G02-A02C

L12 ANSWER 3 OF 3 JAPIO (C) 2005 JPO on STN
AN 1985-068082 JAPIO
TI FORMATION OF SURFACE PROTECTIVE LAYER
IN MATSUMOTO KENJI; WADA SHINTARO; YAMADA SHINJI; SHIBATA YUKARI

PA NITTO ELECTRIC IND CO LTD
PI **JP 60068082** A 19850418 Showa
AI JP 1983-177462 (JP58177462 Showa) 19830926
PRAI JP 1983-177462 19830926
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1985
IC ICM B05D001-28
ICS B05D003-06
ICA C08J007-04
AB PURPOSE: To form a satisfactory surface protective film by adhering a composite sheet formed by coating a specific photosetting type self-adhesive compsn. on a self-supportable sheet surface to the surface of a material to be adhered via a photosetting type self-adhesive layer then irradiating light thereto to cure the self-adhesive layer.
CONSTITUTION: A photosetting type self-adhesive compsn. is prepared of an acrylic copolymer formed by copolymerizing an unsatd. acrylic monomer and a photosensitizer having a polymerizable unsatd. group and a photopolymerizable compound having >=1 methacryloyl group in a molecule is prepared Such compsn. is coated on a self-supportable sheet to form a composite sheet having the photosetting self-adhesive layer. Said sheet is adhered via a photosetting self- adhesive layer to the surface of a material to be adhered and is irradiated with light to cure the photosetting self-adhesive layer. Only the self-supportable sheet is stripped and the surface protective layer consisting of the polymerization cured matter is formed on the surface of the material to be adhered.


=>